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UNITED STATES

DEPARTEMENT OF LABOR
MINE SAFETY AND HEALTH ADMINISTRATION

District 4

REPORT OF INVESTIGATION (UNDERGROUND COAL MINE)

NONFATAL FALL OF RIB ACCIDENT (COAL OUTBURST)

Milburn No. 4 mine (ID No. 46-01296) Milburn Colliery Company Milburn, Fayette County, West Virginia

February 10, 1984

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Homer S. Grose Coal Mine Safety & Health Inspector

Originating Office - Mine Safety and Health Administration P. O. Box 112, Mount Hope, West Virginia 25880 J. M. Krese, District Manager

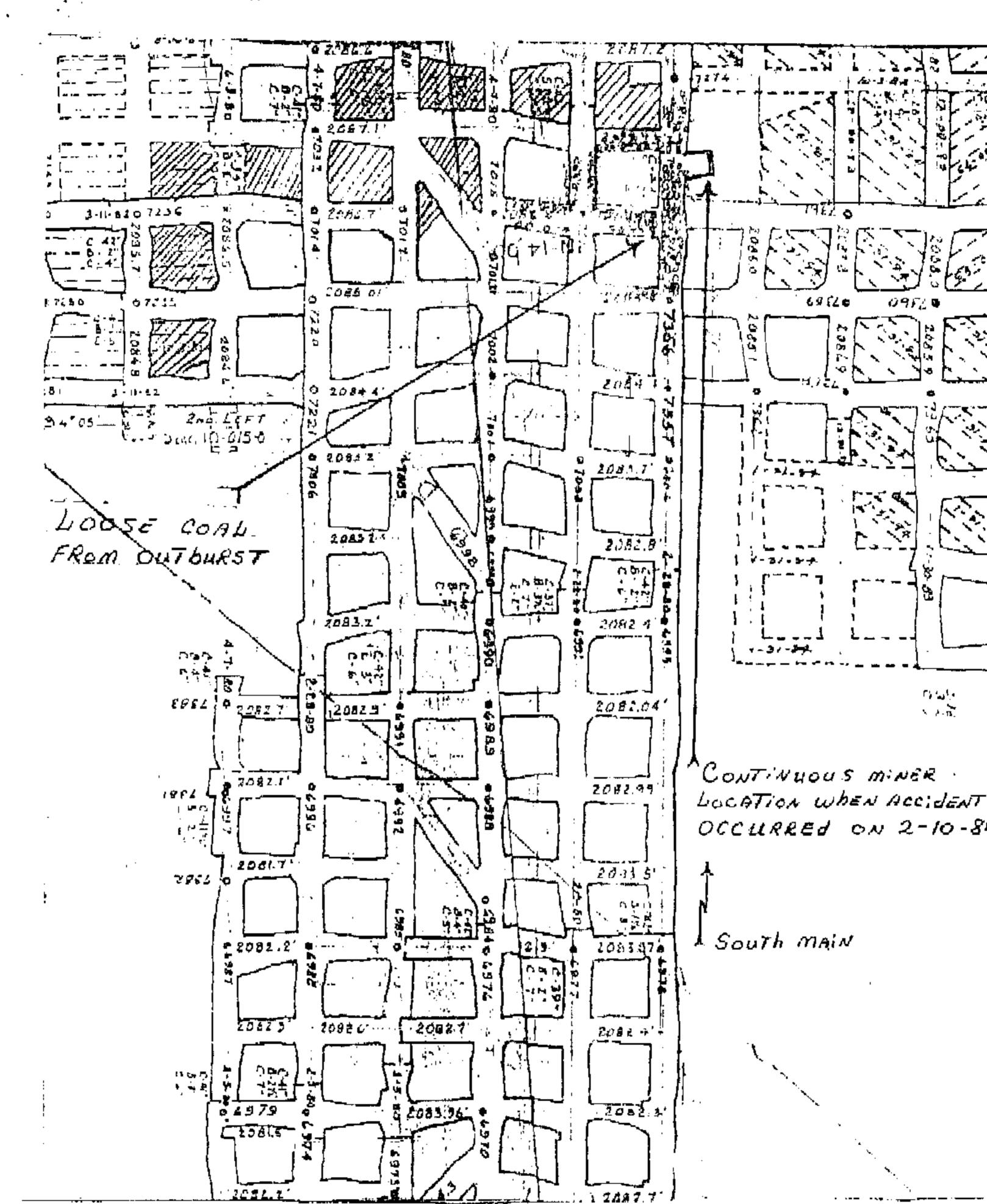
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MILBURN COLLIERY CO.

ID:No. 46-01296

Milburn No. 4 MINE

MSHA

U.S. Department of Labor

Ø 005

* Abstract of Investigation

Mine Safety and Health Administration

Authority—This report is based on an investigation made po as amended by Public Law 95-164.	ursuant to the Federal Mine Safety and Health Act of 1977, Public Law 91-173,
Section A-Identification Data	
l. Title of investigation:	2. Date MSHA Investigation started:
Nonfatal Fall of Rib (Coal Outburst	
3. Report release date:	4. Mine:
	Milburn No. 4 mine
5. Mine 1D number:	Milburn Colliery Company
46~01296	8. Author(s):
7. Town, County, State: Milburn, Fayette County, WV	Homer S. Grose
Section BMine Information	
9. Daily production:	10. Surface employment:
850 tons	9
11. Underground employment:	12. Name of coalbed:
45	<u>No. 2 Gas</u>
13. Thickness of coalbad:	
45-55 inches	
Section C-Lost Quarter Injury Frequency Rate (HSAC) fo	is. This operation:
14. Industry:	
9.97 16. Training program approved:	37.02 17. Mine Profile Rating:
	Not currently rated
YES Section D-Originating Office	TOC COLLEGE TO COLLEGE TO THE COLLEG
18. Mine Safety and Health Administration Coel Mine Health and Safety District No.: 4	Address: POB 112 Mt. Hope. WV 25880
Section E-Abstract	
On Friday, February 10, 1984, at 6	:40 p.m., a rib fall accident (coal outburst) occurred
across the coal pillar line on the	south mains section (015-0) in Milburn No. 4 mine, Milbur
Colliery Company, resulting in inj	uries to Kyle Wade, continuous miner helper. Wade had 2
years intermittent experience as a	miner helper with 38 years total mining experience. The
cause of the accident was faulty p	illar recovery methods resulting in abnormal pressures be
applied to the coal pillars causin	ng coal from the ribs to be violently hurled into the activ
working areas.	
Şection FMine Organization	
Company officials:	Name

Company officials:	Name	Address
19. President	C. Lynch Christian, Jr.	POB 638, Lynchburg, VA 24505
20, Superintendent:	Charlie Couch	POB 8, Burnwell, WV 25034
21, Safety Director:	Gerald Lucas	POB 8, Burnwell, WV 25034
22. Principle officer—H&S:	Charles Buckland	POB 8, Burnwell, WV 25034
23. Lebor Organization:	UMWA, District 17	POB 1313, Charleston, WV
24. Chairman—H&S Committee:	Russell Edwards	Rt. 1, Box 97, Oak Hill, WV 25901

Commentary

On Friday, February 10, 1984, at 4 p.m., the afternoon (second) shift crew entered the mine and traveled to the south mains (015-0) section. After arriving on the section, Steve Smith, section foreman, examined the pillar line and instructed the crew to install additional roadway and breaker posts in order that the pushout portion remaining in No. 3 pillar between Nos. 2 and 3 entries could be extracted. The additional posts were installed and Harold Messer, continuous miner operator, assisted by Kyle Wade, continuous miner helper, trammed the continuous mining machine to the No. 3 pillar and completed loading the pushout.

After completing the pushout portion of the No. 3 pillar block, Messer backed the continuous mining machine to the crosscut outby the pillar line and trammed toward the No. 5 entry on the right side of the section, passing the Nos. 4 and 5 pillar blocks which were intact. Arriving at the No. 5 entry, the continuous mining machine was stopped to permit roadway and breaker posts to be installed so that the No. 6 coal pillar between No. 5 entry and 1 right panel could be recovered. The posts were installed and Messer trammed the continuous mining machine about 20 feet inby the last open crosscut on the pillar line and started extracting coal from the No. 6 pillar block. As the continuous mining machine made the initial cut in the No. 6 pillar, bumps started to occur and continued during extraction of the first cut until 6:40 p.m., when a coal outburst occurred causing coal from the ribs to be violently hurled into the roadway leading into the No. 6 pillar for a distance of 90 feet ouby the working face. The roadways were filled with loose coal to a depth of 2-3 feet, thereby preventing removal of the shuttle car and continuous mining machine.

The concussion from the outburst knocked the eight crew members to the mine floor. One crew member was located approximately 2 crosscuts outby the No. 6 pillar block and the other crew members were located within 50 feet of the No. 6 pillar block.

Kyle Wade, Jr. (injured) was installing additional roadways timbers in No. 5 entry about 50 feet outby the No. 6 pillar split and was hit by the exploding coal rib. After the dust caused by the outburst cleared, Wade, along with the other crew members, walked outby two crosscuts where Smith, foreman, accounted for all the crew members. Wade informed Smith that he was bruised. Smith then transported Wade to the surface and then to an area hospital where he was examined, treated, and released.

Discussion and Evaluation

1. According to statements from miners with 10-20 years of experience in this mine, the bumps and outburst that have occurred in the 3 months prior to this accident were more severe than any previously experienced throughout the history of this mine.

- 2. The miners stated that outbursts of coal from face and ribs would occur in conjunction with the bumps, and on one occasion Delmar Kees, shuttle car operator, was covered with coal as a result of an outburst which caused his head to contact the shuttle car frame resulting in injuries requiring stitches.
- 3. A mine map overlay location by coordinates indicated that the abandoned mines in both coal seams below the accident area in the active mine had been recovered by pillar extraction.
- 4. The investigation revealed that two coal seams below the No. 2 Gas (active mine) had been mined previously. Maps indicated the elevation of the active mine at 2,086 feet with coal seam elevations of 1,988 feet and 1,886 feet, respectively, at the coal seams which contained the abandoned mines.
- 5. Information from surface drilled diamond bore holes indicated sandstone 12 to 90 feet in thickness immediately above the active mine with sandstone forming the strata beneath the coal.
- 6. The elevation of the coal seam being mined was 2,086 feet with a surface elevation of 2,845 feet above the area where the coal outbursts were occurring.
- 7. The miners stated that they were knocked to the mine floor on several occasions during the past three months by pressure bumps and the continuous mining machine was knocked from the coal face with such force that the cutting heads were damaged to the extent that necessitated replacement on two occasions.
- 8. The investigation revealed that coal pillar recovery had been performed in the 2 left and 1 right panels off the south main resulting in the pillar line in the south main heading section being 200 feet inby the areas of second mining in the panels on each side of south mains.

Findings of Fact

The method of mining followed on the pillar line on south mains section exposed the miners to unusual dangers caused by faulty pillar recovery methods, in that a straight pillar line was not maintained. Coal pillars were left inby the pillar line; portions of pillars were left inby the pillar line; and extraction of pillar blocks was performed on pillars not in sequence across the active pillar line resulting in a violation of Section 75.201, Title 30, Code of Federal Regulations.

Conclusion

The accident and resultant injury occurred when management failed to recognize the dangers of coal outbursts and failed to develop and follow a system of retreat min-ing designed to prevent undue pressure on the coal pillars.

Homer S. Grose

Home S. Grace

Approved by:

Subdistrict Manager

J. M. Krese

APPENDIX

List of persons furnishing information and/or present during the investigation:

Milburn Colliery Company Officials

Charles Couch
Rick Bonham
Gerald Lucas
Albert R. Christian
Steve R. Smith
Kenneth Messer
Charles Buckland

Superintendent
Engineer
Safety Director
Administrative Manager
Section Foreman
Section Foreman
Mine Foreman

Milburn Colliery Company Employees

Harold G. Messer Roger Sharp Delmar Kees Russell DeLung Continuous Miner Operator Continuous Miner Helper Shuttle Car Operator 2nd shift Continuous Miner Operator

Representatives of Miners United Mine Workers of America

William "Bolts" Willis

OHSR International Union

West Virginia Department of Mines

Melvin Judy Richard K. Crowl Mine Inspector (Roof Control)
Mine Inspector

Mine Safety and Health Administration

George S. Vargo

Darlie F. Anderson

Fred H. Ryan

James E. Cline

Leighton C. Farley, Jr.

Homer S. Grose

Supervisory Coal Mine
Safety & Health Inspector
Coal Mine Safety & Health
Inspector (Roof Control)
Supervisory Mine Safety &
Health Specialist (Roof
Control)
Coal Mine Safety & Health

Coal Mine Safety & Health Inspector (Roof Control)

Mine Safety & Health Specialist Coal Mine Safety & Health

Inspector

Data Sheet

U.S. Department of Labor Mine Safety and Health Administration

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Section AVictim Data 1. Name 2. 9	Sex .		3. Sociel Security Number
	Maie	☐ Female	236-38-7473
4. Age 5. Job Classification	Λ •••••••		1.
57 Miner Helper 6. Experience at this Classification		7. Total Mining Ex	perience
		_	•
2 years		Over 30 year	
8. What activity was being performed at time of accident?	9. VI	CINII 3 CAPOI IBILDE DE	
Miner Helper		2 years	Yes
Section B-Victim Data for Health and Safety Courses/Training	Received (n	lated to accidenti	Date Received
nnual Retraining		 -	3/8/83
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13.	,	· · · · · · · · · · · · · · · · · · ·	<u> </u>
13.			
14.			
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Section C-Supervisor Data (supervisor of victim) 15. Name		16. Certified	
teve Smith			□ No
17. Experience as Supervisor		18. Total Mining E	x per ience
0 years	les Caralina	13 year	
Section DSupervisor Data for Health and Safety Courses/Train	itub Lacaive	O Lielaran in accident	O CALCUTTOCOTAGE
monal Datominia			3/8/83
nnual Retraining 20.			
			12/20/02
MSA First-Aid			12/20/83
22.			
23, When was the supervisor last present at accident scene prior	to the	24. What did had	to when he was there?
accident?	Tal from	11.11.11.11.11.11.11.11.11.11.11.11.11.	,
Was on site when accident occurred		Discus	sed roof supports
	·-·-		
25. When was he last in contact with the victim?			natructions relative to the accident?
Approximately 30 minutes prior to acc		No	
27. Was he aware of or old he express an awareness of any unsa	fe practice (or condition?	
No.			

Section I (Coal Only)			
MSHA and/or State Certific	ation and/or Quali	ification	Mine ID 46-01296
Date Training Plan Approved <u>9/19/79</u>	Date Training Received		Date Training Received
<pre>Certified Person (Underground)</pre>	1973	Dust	
Certified Person (Surface)		Dust (Calibrat	ion)
Methane & Oxygen Deficiency Testin	9_3/8/83	Noise	
Electrical Energized Surface		*Impoundments	
High Voltage *Annual Retraining Require		* Hoisting Engine	eer
MSHA Training Program Date of Hire 1946 Required Training (Victim)	Date Trai	Required Training	/16/79 Date Training
(Victim) New Miner (U.G.) New Miner (Sur.) Newly Employed	Received	(Victim) Hazard Training (U.G.) Hazard Training (Sur.)	Received
Experienced (U.G.) Newly Employed Experienced (Sur. Annual Refresher (U.G.) Annual Refresher (Sur.)	3/8/83	Task Training Specify Type:	
Section III Company Training Program Company	ampleted.		
Training Program Co	OJT/Formal	Instructor	Date Completed

MSHA

2012

Recommend Training Plan Evaluation by Education and Training Office?

01/07/94 10:07 \$\mathref{2}\mathref{3}\mathref{3}\mathref{4}\mathref{8}\mathref{7}\mathref{3}\mathref{9}\mathref{4}\mathref{7}\mathref{3}\mathref{9}\mathref{4}\mathref{8}\mathref{7}\mathref{3}\mathref{9}\mathref{2}\mathref{7}\mathref{9}\mathref{3}\mathref{9}\mathref{4}\mathref{8}\mathref{7}\mathref{3}\mathref{9}\mathref{2}\mathref{7}\mathref{9}\mathref{2}\mathref{9}\mathref{7}\mathref{9}\mathref{9}\mathref{9}\mathref{7}\mathref{9}\mathref{2}\mathref{9}\mathre

YES NO

01/07/94 10:07 **23**304 877 3927 Jul, Injury and Riness Report

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<u>46-0/296</u> ne Name		M/Nonmetal Mining	E Coal N	Arring	partains to contractor.
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Section B - Complete for Each	h Reportable Accida	nt immediately Repo	orted to MSHA	/	
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04 + (hundation	as or Dust Ignition	06 Mine Fi	re 07 –	Explosives	08 - Hoo! Fall
09 - Outburst Name of Investigator	10 – impoundin	ig Dam	11 - Hoisting	<u> 12 – Offsite Inju</u>	ırv .
Manue of Intaggination		on Starlet	4. Steps Taken to	Prevent Recu <i>rt</i>	ence of Acoidoni
	Month Day	YEUr			
Section C Complete for Each	n Reportable Accider	nt, Injury or illness			<u> </u>
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05 Culm Bank/Refuse Pile	06 Dredge Mining	12 Other Surface Mr	aing 17 Independ	ent Shoos (with s	own MSHAID) 99 Office Facilities
) Underground Location: Q1 Yea	nical Shaft 02 Slope	e/Inclined Shaft 0:	3 Face 04 Interse	etion – 05 Undi	erground Shop/Ollice (06)Olner
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